

Fig. 1. Fates of  ${}^2\text{H}$ -attached to fatty acids in cells

Title: DEUTERATED GLUCOSE OR FAT  
 TOLERANCE TESTS FOR HIGH-THROUGHPUT  
 MEASUREMENTS OF THE METABOLISM OF  
 SUGARS OR FATTY ACIDS IN THE BODY  
 Appln. No: Not Yet Assigned  
 Filed: Concurrently Herewith  
 Docket No.: 416272005200 Sheet 2 of 6

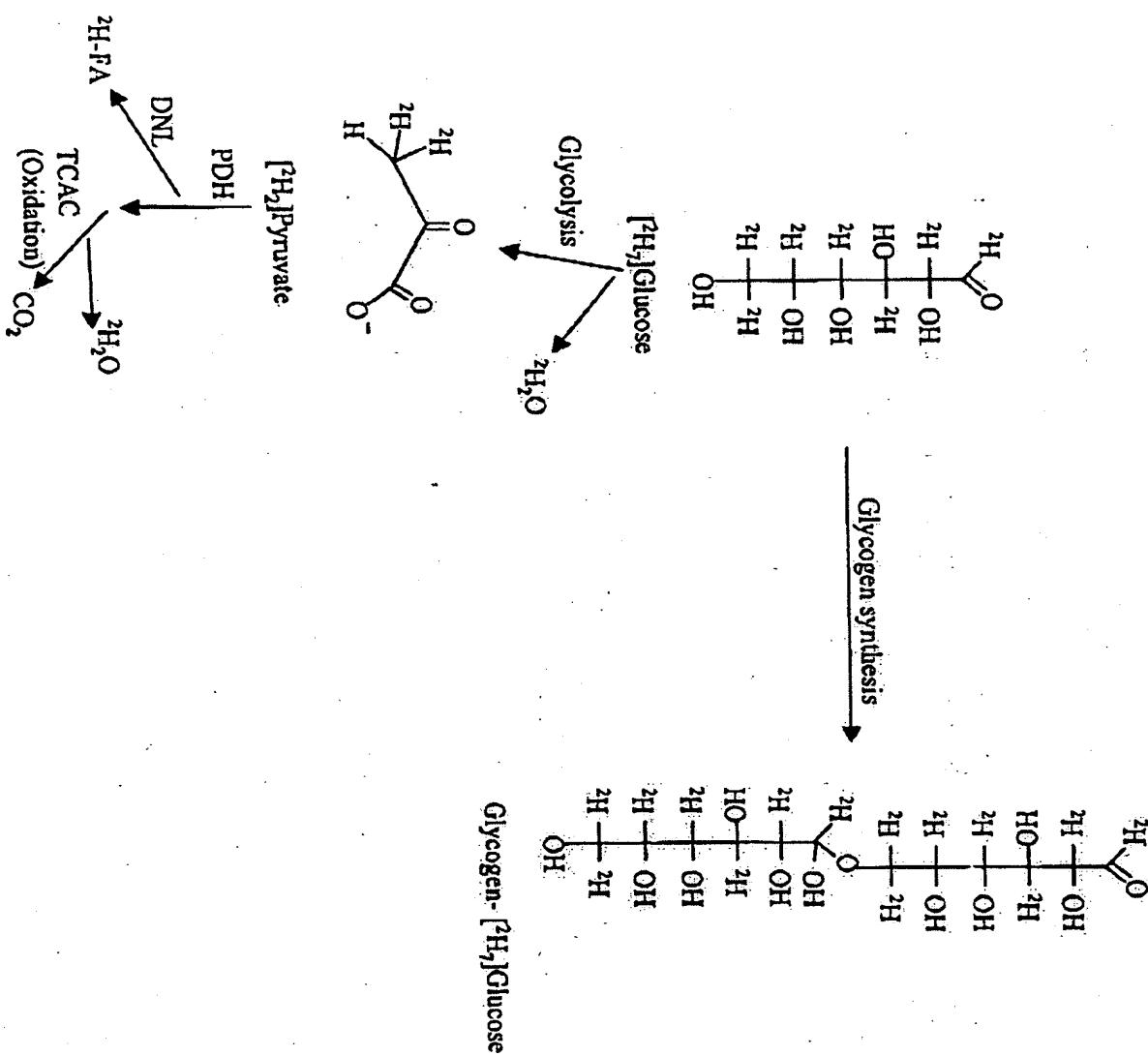


Fig. 2. Fates of  $^{2\text{H}}$ -attached to glucose in cells

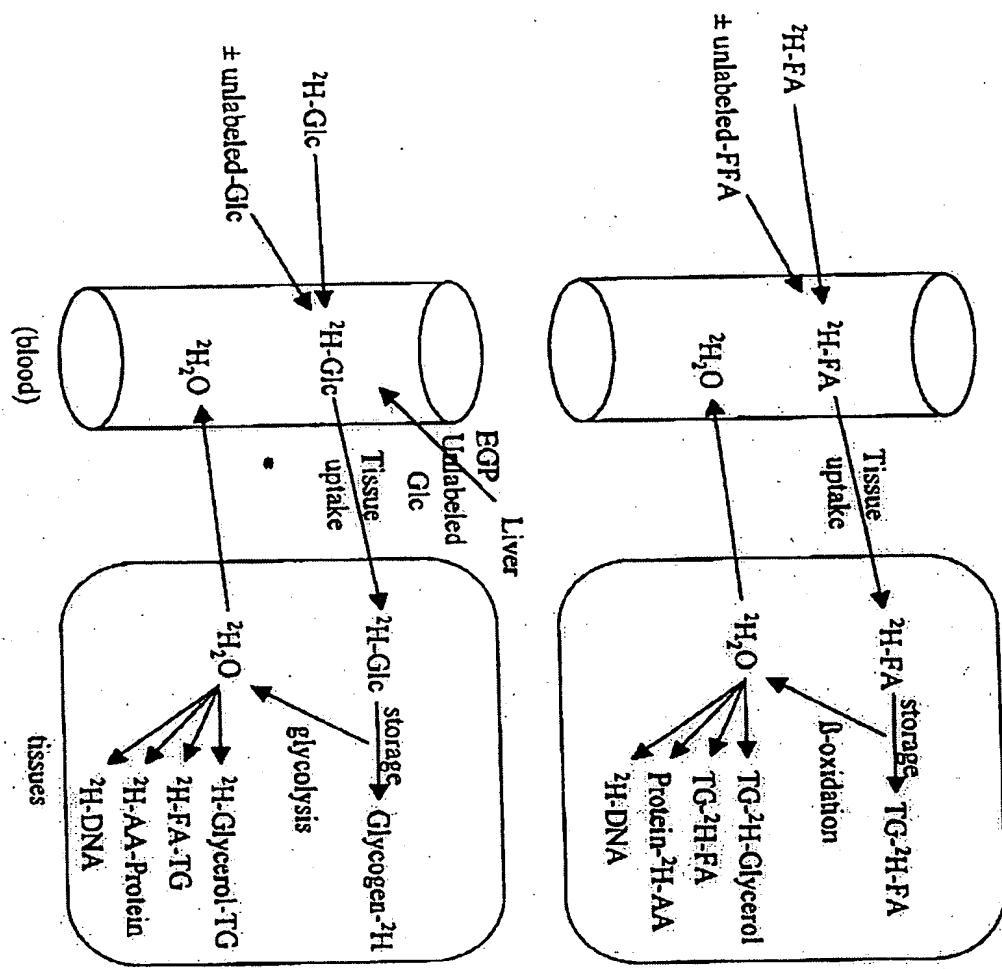


Fig. 3. Schematic model of  $^2\text{H}$ -glucose or  $^2\text{H}$ -FA tolerance test

F.A., fatty acid; Glc, glucose; TG, triacylglycerol; AA, amino acid; EGP, endogenous glucose production (liver)

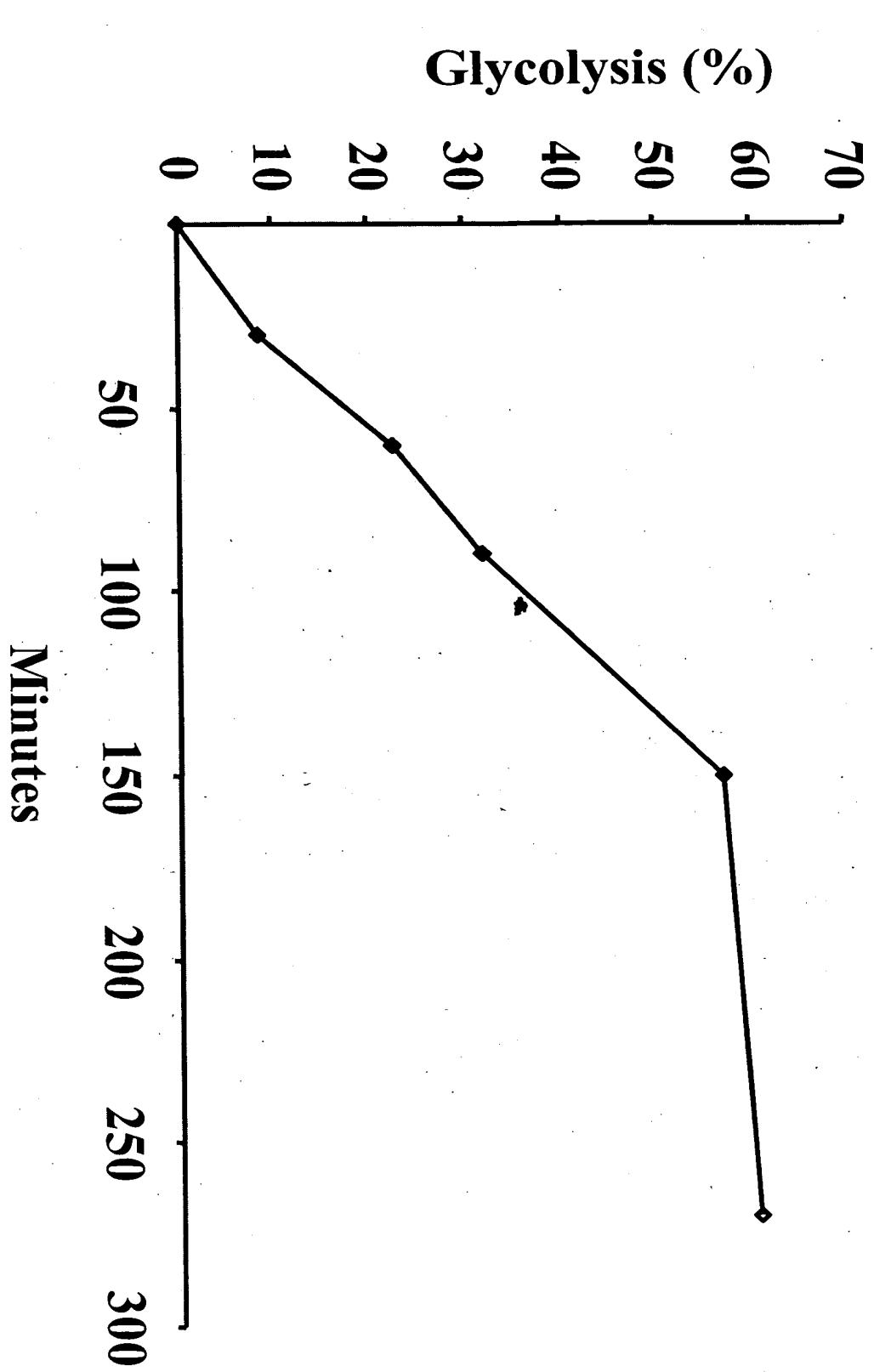
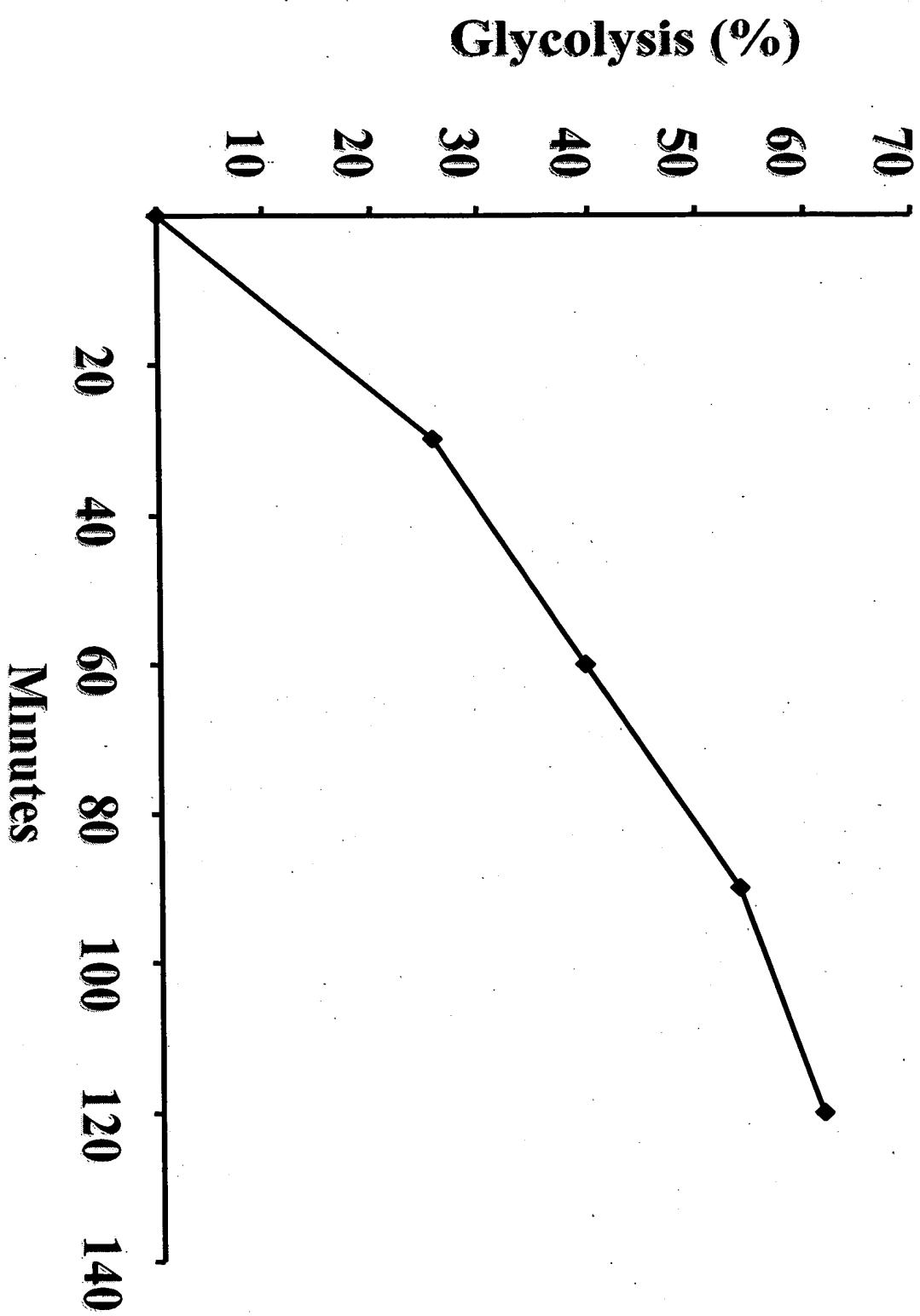


Figure 4: Kinetic Oral Glucose Tolerance Test: Glycolytic disposal of glucose in a Normal Human Subject



**Figure 5: Kinetic Oral Glucose Tolerance Test: Glycolytic disposal of glucose in a Normal Mouse**

Figure 6: Kinetic Oral Glucose Tolerance Test: glycolytic  
disposal of glucose in a Normal Rat

